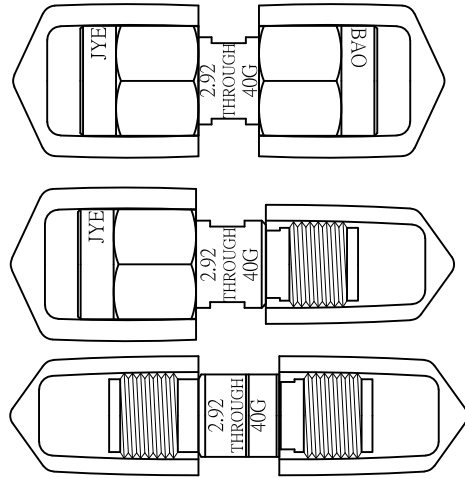
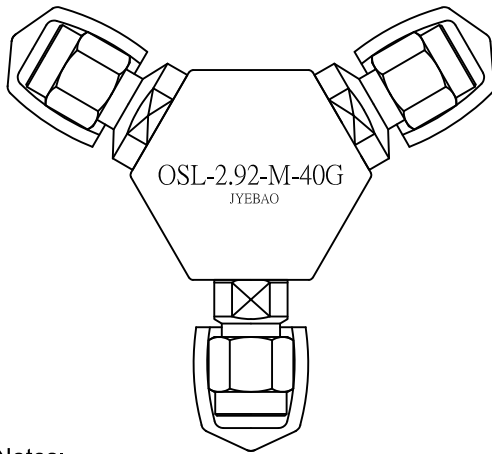


OSLT-2.92-M-40G

2.92mm Plug Open Short Load Through 40GHz

50Ω



**Notes:**

1. Temperature range for optimal results: +20 °C to +26 °C
2. Storage temperature range: -20 °C to +75°C
3. When not in use put on cap to keep connector clean
4. Return loss test results shipped along with goods (example below)

OPEN				
Frequency Range	DC-40GHz			
Impedance	50Ω			
Offset length	Agilent	Anritsu	Rohde&Schwarz	
	16.70ps	5.01mm	5.01mm	
Capacitance	Agilent/Anritsu		Rohde&Schwarz	
	C0	(1E-15) F	4.500 fF	4.5000000
C1	(1E-27) F/Hz	395.000	fF/GHz	0.3950000
C2	(1E-36) F/Hz <sup>2</sup>	-20.000	fF/GHz <sup>2</sup>	-0.0200000
C3	(1E-45) F/Hz <sup>3</sup>	0.400	fF/GHz <sup>3</sup>	0.0004000
Phase Error	DC-6GHz	≤1°		
	6-26.5GHz	≤2°		
	26.5-40Ghz	≤3°		
Return Loss	DC-18GHz	≤0.10dB		
	18-40GHz	≤0.20dB		

SHORT				
Frequency Range	DC-40GHz			
Impedance	50Ω			
Offset length	Agilent	Anritsu	Rohde&Schwarz	
	16.70ps	5.01mm	5.01mm	
Inductance	Agilent/Anritsu		Rohde&Schwarz	
	L0	(1E-12) H	4.000	pH
L1	(1E-24) H/Hz	-650.000	pH/GHz	-0.6500000
L2	(1E-33) H/Hz <sup>2</sup>	39.000	pH/GHz <sup>2</sup>	0.0390000
L3	(1E-42) H/Hz <sup>3</sup>	-0.640	pH/GHz <sup>3</sup>	-0.0006400
Phase Error	DC-6GHz	≤1°		
	6-26.5GHz	≤2°		
	26.5-40Ghz	≤3°		
Return Loss	DC-18GHz	≤0.10dB		
	18-40GHz	≤0.20dB		

Load		
Frequency Range	DC-40GHz	
Impedance	50Ω	
DC Resistance	50 ± 0.25Ω	
Max Power	0.25W	
Return Loss	DC-6GHz	≥42dB
	6-40GHz	≥30 dB

Through Adaptor		
Frequency Range	DC-40GHz	
Impedance	50Ω	
Insertion Loss	≤0.2dB	
Electrical Length	16.3+/-0.12mm	
Return Loss	DC-6GHz	≥32dB
	6-26.5GHz	≥30dB
	26.5-40GHz	≥25dB

Parts	Material	Plating ( Micro-inch )
Housing	Aluminium	Anodized (Green)
Cap	PVC	
Body open/short/load/adaptor	Stainless Steel	Passivated
Contact pin open/short/load/ through adaptors	Beryllium Copper	Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20
Dielectric load/ open/ through adaptors	PPO	

This part number complies with RoHS.

Notice: JYEBAO reserves the right to make modifications deemed appropriate.

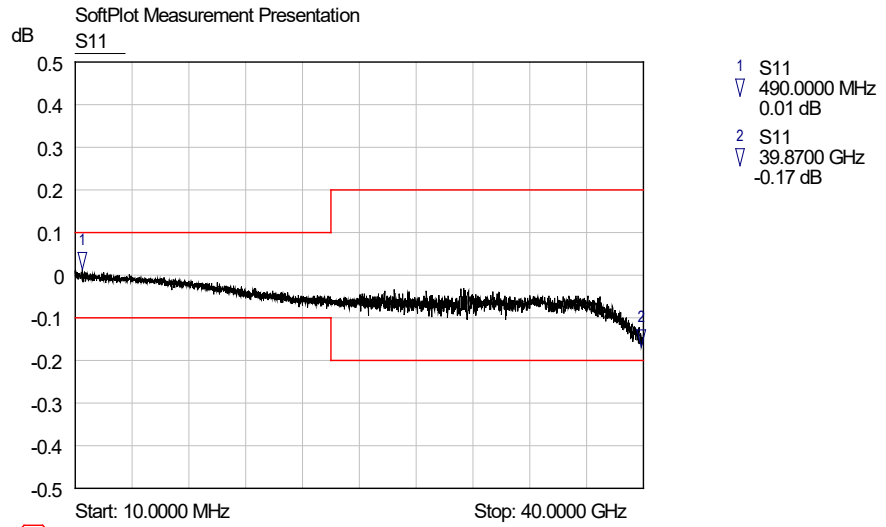
Test equipment

MS4647B NETWORK ANALYZER

Return Loss

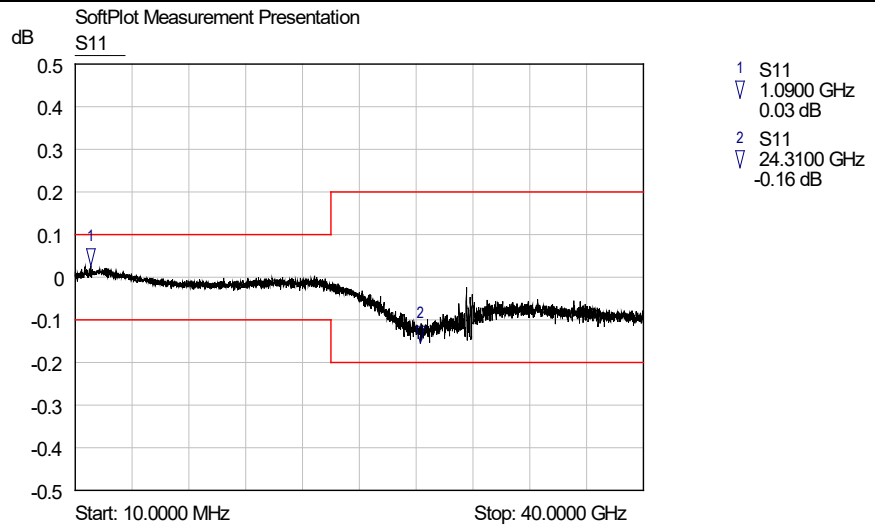
Test result

Open



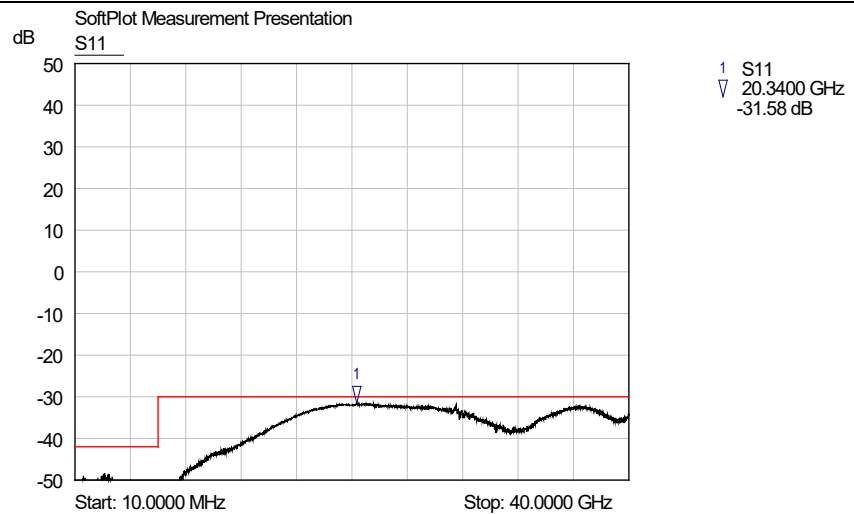
PASS

Short

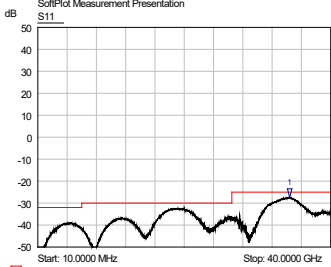
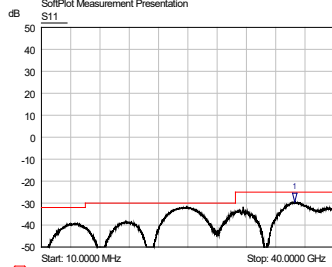
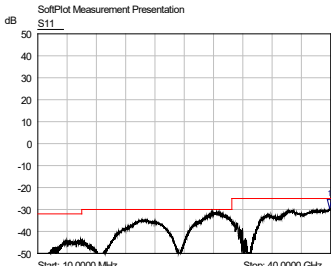
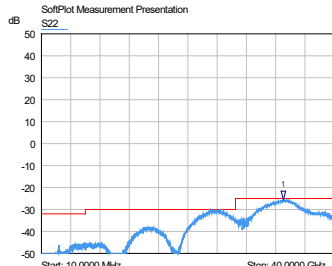
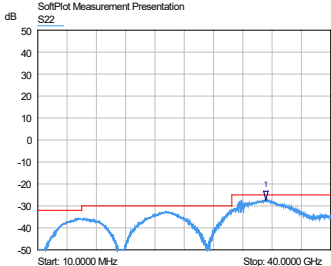
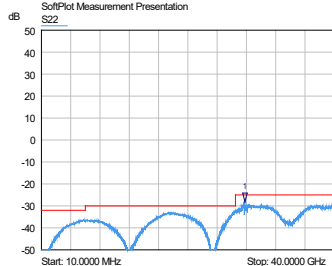


PASS

Load



PASS

Test equipment	MS4647B NETWORK ANALYZER	
Return Loss	Test result	
<p>TH-2.92-MM-40G</p> <p><b>Thru male to male</b></p>	<p>SoftPlot Measurement Presentation</p> <p>S11</p>  <p>Start: 10.0000 MHz Stop: 40.0000 GHz</p> <p>PASS</p> <p>↓ S11 34.4000 GHz -27.43 dB</p>	<p>SoftPlot Measurement Presentation</p> <p>S11</p>  <p>Start: 10.0000 MHz Stop: 40.0000 GHz</p> <p>PASS</p> <p>↓ S11 34.5800 GHz -29.52 dB</p>
<p>TH-2.92-MF-40G</p> <p><b>Thru male to female</b></p>	<p>SoftPlot Measurement Presentation</p> <p>S11</p>  <p>Start: 10.0000 MHz Stop: 40.0000 GHz</p> <p>PASS</p> <p>↓ S11 39.8500 GHz -29.58 dB</p>	<p>SoftPlot Measurement Presentation</p> <p>S22</p>  <p>Start: 10.0000 MHz Stop: 40.0000 GHz</p> <p>PASS</p> <p>↓ S22 33.0700 GHz -25.66 dB</p>
<p>TH-2.92-FF-40G</p> <p><b>Thru female to female</b></p>	<p>SoftPlot Measurement Presentation</p> <p>S22</p>  <p>Start: 10.0000 MHz Stop: 40.0000 GHz</p> <p>PASS</p> <p>↓ S22 31.1700 GHz -27.33 dB</p>	<p>SoftPlot Measurement Presentation</p> <p>S22</p>  <p>Start: 10.0000 MHz Stop: 40.0000 GHz</p> <p>PASS</p> <p>↓ S22 27.7900 GHz -28.17 dB</p>

Test equipment

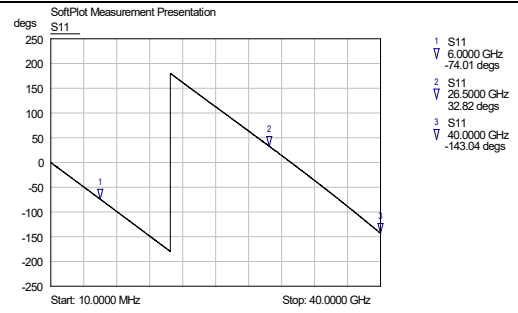
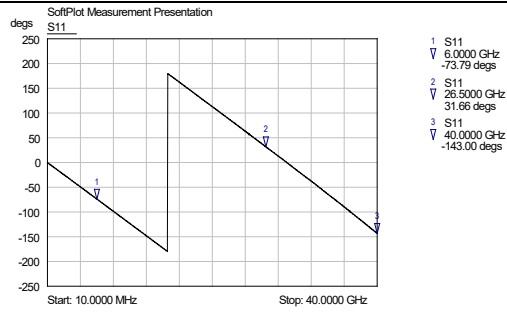
### MS4647B NETWORK ANALYZER

**Phase error**

**TOSLK50A-40**

**OSLT-2.92-M-40G**

**Open**



**Short**

